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(54) **COMMUNICATION AND PROXIMITY
AUTHORIZATION SYSTEMS**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 121 days.

This patent is subject to a terminal dis-
claimer.

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See application file for complete search history.

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(57) **ABSTRACT**

A proximity service unit for providing at least one predeter-
mined service for use with multiple types of wireless devices.
The proximity service unit includes a multiple channel wire-
less transceiver, a proximity unit validation assembly, and a
legacy activation unit. The multiple channel wireless trans-
ceiver receives at least two signal types, such as infrared
region signals, 900 MHz region signals, 1.8 GHz region sig-
nals, and 2.4 GHz region signals. The multiple channel wire-
less transceiver receives a request authorization code from
each of a plurality of respective wireless devices such that the
plurality of wireless devices communicate simultaneously
with the multiple channel wireless transceiver without air
time. The proximity unit validation assembly communicates
with the multiple channel wireless transceiver and receives
and validates the plurality of request authorization codes
received by the multiple channel wireless transceiver. The
legacy activation unit receives a service authorization code
and provides at least one predetermined service for each
wireless device providing the request authorization code
resulting in a service authorization code.

19 Claims, 41 Drawing Sheets

